TechShop

Task 1. Database Design:

1. Create the database named "TechShop"

- 2. Define the schema for the Customers, Products, Orders, OrderDetails and Inventory tables based on the provided schema.
- 1. Customers:

```
    CustomerID (Primary Key) • FirstName • LastName • Email • Phone • Address
    CREATE TABLE Customers (
    CustomerID INT PRIMARY KEY,
    FirstName VARCHAR(100),
    LastName VARCHAR(100),
    Email VARCHAR(100),
    Phone VARCHAR(20),
    Address VARCHAR(150)
    );
```

```
mysql> desc Customers;
 Field
             Type
                            | Null | Key | Default | Extra
 CustomerID | int
                                    PRI
                                          NULL
                             NO
 FirstName | varchar(100)
                             YES
                                          NULL
            varchar(100)
varchar(100)
 LastName
                             YES
                                          NULL
 Email
                             YES
                                          NULL
 Phone
            varchar(20)
                             YES
                                          NULL
 Address
            | varchar(150) | YES
                                          NULL
 rows in set (0.00 sec)
```

2. Products: • ProductID (Primary Key) • ProductName • Description • Price

```
CREATE TABLE Products (
ProductID INT PRIMARY KEY,
ProductName VARCHAR(100),
Description TEXT,
Price DECIMAL(10, 2)
```

);

```
mysql> CREATE TABLE Products (
    -> ProductID INT PRIMARY KEY,
    -> ProductName VARCHAR(100),
    -> Description TEXT,
    -> Price DECIMAL(10, 2)
    ->);
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> desc Products;
                              Null Key
                                            Default
 Field
               Type
                                                      Extra
 ProductID
               int
                               NO
                                      PRI
                                            NULL
 ProductName
               varchar(100)
                               YES
                                            NULL
 Description
               text
                                            NULL
                               YES
               decimal(10,2)
 Price
                              YES
                                            NULL
 rows in set (0.00 sec)
```

```
3. Orders: • OrderID (Primary Key) • CustomerID (Foreign Key referencing Customers) • OrderDate • TotalAmount

CREATE TABLE Orders (

OrderID INT PRIMARY KEY,

CustomerID INT,

OrderDate DATE,

TotalAmount DECIMAL(10, 2)

);

mysql > CREATE TABLE Orders (

-> OrderID INT PRIMARY KEY,

-> CustomerID INT,

-> OrderDate DATE,

-> TotalAmount DECIMAL(10, 2)

-> );

Query OK, 0 rows affected (0.03 sec)
```

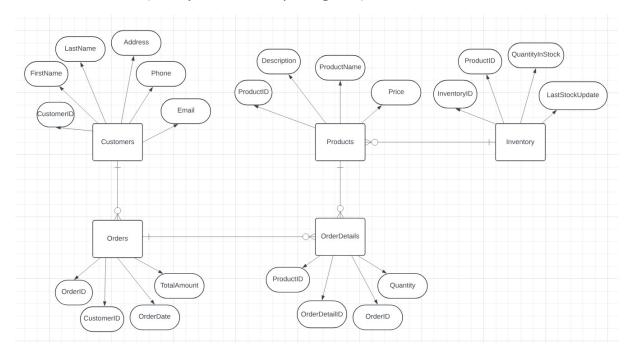
```
mysql> desc Orders;
 Field
               Type
                                Null | Key
                                            Default
 OrderID
                int
                                NO
                                        PRI
                                              NULL
                int
                                YES
                                        MUL
 CustomerID
                                              NULL
                date
 OrderDate
                                YES
                                              NULL
               decimal(10,2)
 TotalAmount
                                YES
                                              NULL
 rows in set (0.00 sec)
```

4. OrderDetails: • OrderDetailID (Primary Key) • OrderID (Foreign Key referencing Orders) • ProductID (Foreign Key referencing Products) • Quantity

```
CREATE TABLE OrderDetails (
 OrderDetailID INT PRIMARY KEY,
 OrderID INT,
 ProductID INT,
 Quantity INT
);
mysql> CREATE TABLE OrderDetails (
              OrderDetailID INT PRIMARY KEY,
              OrderID INT,
              ProductID INT,
              Quantity INT
     ->
     -> );
Query OK, 0 rows affected (0.03 sec)
mysql> desc OrderDetails;
  Field
                   Type | Null | Key
                                           Default
  OrderDetailID
                    int
                            NO
                                     PRI
                                           NULL
                     int
  OrderID
                            YES
                                    MUL
                                           NULL
  ProductID
                    int
                            YES
                                    MUL
                                           NULL
 Quantity
                   int
                            YES
                                           NULL
 rows in set (0.01 sec)
5. Inventory • InventoryID (Primary Key) • ProductID (Foreign Key referencing Products) •
QuantityInStock • LastStockUpdate
CREATE TABLE Inventory (
 InventoryID INT PRIMARY KEY,
 ProductID INT,
 QuantityInStock INT,
 LastStockUpdate DATE
);
```

```
nysql> CREATE TABLE Inventory (
           InventoryID INT PRIMARY KEY,
           ProductID INT,
QuantityInStock INT,
LastStockUpdate DATE
Query OK, 0 rows affected (0.03 sec)
mysql> desc inventory;
 Field
                      Type | Null | Key | Default | Extra
  InventoryID
                                             NULL
                      int
                              NO
  ProductID
                      int
                              YES
                                             NULL
  QuantityInStock
                      int
                              YES
                                             NULL
                                             NULL
  LastStockUpdate
                              YES
                      date
  rows in set (0.00 sec)
```

3. Create an ERD (Entity Relationship Diagram) for the database.



- 4. Create appropriate Primary Key and Foreign Key constraints for referential integrity.
- -Adding Foreign Key constraint to Orders table

ALTER TABLE Orders

ADD CONSTRAINT fk customer

FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID);

```
mysql> ALTER TABLE Orders
-> ADD CONSTRAINT fk_customer
-> FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID);
Query OK, 0 rows affected (0.13 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

-Adding Foreign Key constraints to OrderDetails table

ALTER TABLE OrderDetails

ADD CONSTRAINT fk order

FOREIGN KEY (OrderID) REFERENCES Orders(OrderID);

```
mysql> ALTER TABLE OrderDetails
-> ADD CONSTRAINT fk_order
-> FOREIGN KEY (OrderID) REFERENCES Orders(OrderID);
Query OK, 0 rows affected (0.15 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

ALTER TABLE OrderDetails

ADD CONSTRAINT fk product

FOREIGN KEY (ProductID) REFERENCES Products(ProductID);

```
mysql> ALTER TABLE OrderDetails
-> ADD CONSTRAINT fk_product
-> FOREIGN KEY (ProductID) REFERENCES Products(ProductID);
Query OK, 0 rows affected (0.17 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

-Adding Foreign Key constraint to Inventory table

ALTER TABLE Inventory

ADD CONSTRAINT fk product inventory

FOREIGN KEY (ProductID) REFERENCES Products(ProductID);

```
mysql> ALTER TABLE Inventory
    -> ADD CONSTRAINT fk_product_inventory
    -> FOREIGN KEY (ProductID) REFERENCES Products(ProductID);
Query OK, 0 rows affected (0.15 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

5. Insert at least 10 sample records into each of the following tables. a. Customers b. Products c. Orders d. OrderDetails e. Inventory

-Inserting sample data into Customers table

INSERT INTO Customers (CustomerID, FirstName, LastName, Email, Phone, Address)
VALUES

- (1, 'Ravi', 'Kumar', 'ravi.kumar@gmail.com', '1234567890', '123 Main St, Vijayawada'),
- (2, 'Sarala', 'Reddy', 'sarala.reddy@gmail.com', '0987654321', '456 Main St, Guntur'),
- (3, 'Prasad', 'Rao', 'prasad.rao@gmail.com', '9876543210', '789 Main St, Visakhapatnam'),
- (4, 'Anusha', 'Gowda', 'anusha.gowda@gmail.com', '0123456789', '101 Main St, Tirupati'),
- (5, 'Rajesh', 'Babu', 'rajesh.babu@gmail.com', '8765432109', '222 Main St, Nellore'),
- (6, 'Shobha', 'Chowdary', 'shobha.chowdary@gmail.com', '5432109876', '333 Main St, Kakinada'),
- (7, 'Prakash', 'Naidu', 'prakash.naidu@gmail.com', '6543210987', '444 Main St, Rajahmundry'),
- (8, 'Vijaya', 'Kumari', 'vijaya.kumari@gmail.com', '2345678901', '555 Main St, Amaravati'),
- (9, 'Ram', 'Gopal', 'ram.gopal@gmail.com', '4321098765', '666 Main St, Vizianagaram'),
- (10, 'Lakshmi', 'Devi', 'lakshmi.devi@gmail.com', '3456789012', '777 Main St, Anantapur');

```
mysql> INSERT INTO Customers (CustomerID, FirstName, LastName, Email, Phone, Address)
    -> VALUES
    -> (1, 'Ravi', 'Kumar', 'ravi.kumar@gmail.com', '1234567890', '123 Main St, Vijayawada'),
    -> (2, 'Sarala', 'Reddy', 'sarala.reddy@gmail.com', '0987654321', '456 Main St, Guntur'),
    -> (3, 'Prasad', 'Rao', 'prasad.rao@gmail.com', '9876543210', '789 Main St, Visakhapatnam'),
    -> (4, 'Anusha', 'Gowda', 'anusha.gowda@gmail.com', '0123456789', '101 Main St, Tirupati'),
    -> (5, 'Rajesh', 'Babu', 'rajesh.babu@gmail.com', '8765432109', '222 Main St, Nellore'),
    -> (6, 'Shobha', 'Chowdary', 'shobha.chowdary@gmail.com', '5432109876', '333 Main St, Kakinada'),
    -> (7, 'Prakash', 'Naidu', 'prakash.naidu@gmail.com', '6543210987', '444 Main St, Rajahmundry'),
    -> (8, 'Vijaya', 'Kumari', 'vijaya.kumari@gmail.com', '2345678901', '555 Main St, Amaravati'),
    -> (9, 'Ram', 'Gopal', 'ram.gopal@gmail.com', '4321098765', '666 Main St, Vizianagaram'),
    -> (10, 'Lakshmi', 'Devi', 'lakshmi.devi@gmail.com', '3456789012', '777 Main St, Anantapur');
Query OK, 10 rows affected (0.02 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

-Inserting sample data into Products table

INSERT INTO Products (ProductID, ProductName, Description, Price)

VALUES

- (1, 'HP Laptop', 'High performance laptop', 49999.99),
- (2, 'Smartphone', 'Latest smartphone model', 29999.99),
- (3, 'Tablet', 'Compact tablet', 14999.99),
- (4, 'Headphones', 'Wireless headphones', 9999.99),
- (5, 'Smartwatch', 'Fitness smartwatch', 7999.99),
- (6, 'Camera', 'DSLR camera', 34999.99),
- (7, 'TV', 'Smart LED TV', 54999.99),
- (8, 'Gaming Console', 'Next-gen gaming console', 19999.99),
- (9, 'Printer', 'Wireless printer', 9999.99),
- (10, 'Router', 'High-speed router', 4999.99);

```
mysql> INSERT INTO Products (ProductID, ProductName, Description, Price)
   -> VALUES
   -> (1, 'HP Laptop', 'High performance laptop', 49999.99),
   -> (2, 'Smartphone', 'Latest smartphone model', 29999.99),
   -> (3, 'Tablet', 'Compact tablet', 14999.99),
   -> (4, 'Headphones', 'Wireless headphones', 9999.99),
   -> (5, 'Smartwatch', 'Fitness smartwatch', 7999.99),
   -> (6, 'Camera', 'DSLR camera', 34999.99),
   -> (7, 'TV', 'Smart LED TV', 54999.99),
   -> (8, 'Gaming Console', 'Next-gen gaming console', 19999.99),
   -> (9, 'Printer', 'Wireless printer', 9999.99),
   -> (10, 'Router', 'High-speed router', 4999.99);
Query OK, 10 rows affected (0.02 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

-Inserting sample data into Orders table

INSERT INTO Orders (OrderID, CustomerID, OrderDate, TotalAmount)

VALUES

- (1, 1, '2024-04-01', 49999.99),
- (2, 2, '2024-04-02', 29999.99),
- (3, 3, '2024-04-03', 14999.99),
- (4, 4, '2024-04-04', 9999.99),
- (5, 5, '2024-04-05', 7999.99),

```
(6, 6, '2024-04-06', 34999.99),
(7, 7, '2024-04-07', 54999.99),
(8, 8, '2024-04-08', 19999.99),
(9, 9, '2024-04-09', 9999.99),
(10, 10, '2024-04-10', 4999.99);
mysql> INSERT INTO Orders (OrderID, CustomerID, OrderDate, TotalAmount)
     -> VALUES
    -> (1, 1, '2024-04-01', 49999.99),

-> (2, 2, '2024-04-02', 29999.99),

-> (3, 3, '2024-04-03', 14999.99),

-> (4, 4, '2024-04-04', 9999.99),
     -> (5, 5, '2024-04-05', 7999.99),
        (6, 6, '2024-04-06', 34999.99),
             7, '2024-04-07', 54999.99),
        (8, 8, '2024-04-08', 19999.99),
     -> (9, 9, '2024-04-09', 9999.99),
     -> (10, 10, '2024-04-10', 4999.99);
Query OK, 10 rows affected (0.02 sec)
Records: 10 Duplicates: 0 Warnings: 0
-Inserting sample data into OrderDetails table
```

INSERT INTO OrderDetails (OrderDetailID, OrderID, ProductID, Quantity)

VALUES

(1, 1, 1, 1),

(2, 2, 2, 1),

(3, 3, 3, 1),

(4, 4, 4, 1),

(5, 5, 5, 1),

(6, 6, 6, 1),

(7, 7, 7, 1),

(8, 8, 8, 1),

(9, 9, 9, 1),

(10, 10, 10, 1);

```
mysql> INSERT INTO OrderDetails (OrderDetailID, OrderID, ProductID, Quantity)
-> VALUES
-> (1, 1, 1, 1),
-> (2, 2, 2, 1),
-> (3, 3, 3, 1),
-> (4, 4, 4, 1),
-> (5, 5, 5, 1),
-> (6, 6, 6, 1),
-> (7, 7, 7, 1),
-> (8, 8, 8, 1),
-> (9, 9, 9, 1),
-> (10, 10, 10, 1);

Query OK, 10 rows affected (0.01 sec)

Records: 10 Duplicates: 0 Warnings: 0
```

-Inserting sample data into Inventory table

INSERT INTO Inventory (InventoryID, ProductID, QuantityInStock, LastStockUpdate)

VALUES

```
(1, 1, 10, '2024-03-01'),

(2, 2, 20, '2024-03-02'),

(3, 3, 15, '2024-03-03'),

(4, 4, 30, '2024-03-04'),

(5, 5, 25, '2024-03-05'),

(6, 6, 5, '2024-03-06'),

(7, 7, 8, '2024-03-07'),

(8, 8, 12, '2024-03-08'),

(9, 9, 18, '2024-03-09'),

(10, 10, 22, '2024-03-10');
```

```
mysql> INSERT INTO Inventory (InventoryID, ProductID, QuantityInStock, LastStockUpdate)
-> VALUES
-> (1, 1, 10, '2024-03-01'),
-> (2, 2, 20, '2024-03-02'),
-> (3, 3, 15, '2024-03-03'),
-> (4, 4, 30, '2024-03-04'),
-> (5, 5, 25, '2024-03-05'),
-> (6, 6, 5, '2024-03-06'),
-> (7, 7, 8, '2024-03-06'),
-> (8, 8, 12, '2024-03-08'),
-> (9, 9, 18, '2024-03-09'),
-> (10, 10, 22, '2024-03-10');
Query OK, 10 rows affected (0.02 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

Tasks 2. Select, Where, Between, AND, LIKE:

1. Write an SQL query to retrieve the names and emails of all customers.

Select FirstName, LastName, Email from Customers;

```
mysql> Select FirstName, LastName, Email from Customers;
 FirstName | LastName | Email
                        ravi.kumar@gmail.com
 Ravi
             Kumar
                        sarala.reddy@gmail.com
 Sarala
             Reddy
                        prasad.rao@gmail.com
 Prasad
             Rao
 Anusha
            Gowda
                       anusha.gowda@gmail.com
                        rajesh.babu@gmail.com
 Rajesh
             Babu
            | Chowdary |
                        shobha.chowdary@gmail.com
 Shobha
                        prakash.naidu@gmail.com
 Prakash
             Naidu
 Vijaya
             Kumari
                        vijaya.kumari@gmail.com
             Gopal
                        ram.gopal@gmail.com
 Ram
                        lakshmi.devi@gmail.com
 Lakshmi
            Devi
10 rows in set (0.00 sec)
```

2. Write an SQL query to list all orders with their order dates and corresponding customer names.

Select o.OrderID, o.OrderDate, CONCAT(c.FirstName, '', c.LastName) AS CustomerName FROM Orders AS o JOIN Customers AS c ON c.CustomerID = o.CustomerID;

```
nysql> Select o.OrderID, o.OrderDate, CONCAT(c.FirstName, ' ', c.LastName) AS CustomerName
   -> FROM Orders AS o JOIN Customers AS c ON c.CustomerID = o.CustomerID;
OrderID | OrderDate | CustomerName
          2024-04-01 | Ravi Kumar
                     Sarala Reddy
          2024-04-02
          2024-04-03 | Prasad Rao
                      Anusha Gowda
                       Rajesh Babu
          2024-04-06 | Shobha Chowdary
          2024-04-07
                       Prakash Naidu
          2024-04-08
                       Vijaya Kumari
                       Ram Gopal
          2024-04-09
          2024-04-10
                       Lakshmi Devi
l0 rows in set (0.01 sec)
```

3. Write an SQL query to insert a new customer record into the "Customers" table. Include customer information such as name, email, and address.

INSERT INTO Customers (CustomerID, FirstName, LastName, Email, Phone, Address)

VALUES

(11, 'Ram', 'Reddy', 'ram@gmail.com', '1234123412', '123 Main St Vijayawada');

```
mysql> INSERT INTO Customers(CustomerID, FirstName, LastName, Email, Phone, Address)
-> VALUES
-> (11, 'Ram', 'Reddy', 'ram@gmail.com', '1234123412', '123 Main St Vijayawada');
Query OK, 1 row affected (0.01 sec)
```

4. Write an SQL query to update the prices of all electronic gadgets in the "Products" table by increasing them by 10%.

UPDATE Products

Set price = 1.1 * price;

```
mysql> UPDATE Products
    -> Set price = 1.1 * price;
Query OK, 10 rows affected, 10 warnings (0.02 sec)
Rows matched: 10 Changed: 10 Warnings: 10
mysql> select * from Products;
  ProductID | ProductName | Description
          1 | HP Laptop
                               | High performance laptop | 54999.99
          2 | Smartphone
                               | Latest smartphone model | 32999.99
                              | Compact tablet
| Wireless headphones
| Fitness smartwatch
| DSLR camera
          3 | Tablet
                                                           16499.99
          4 | Headphones
5 | Smartwatch
                                                            10999.99
                                                             8799.99
          6 | Camera
                                                            38499.99
          7
                               Smart LED TV
                                                            60499.99
              TV
            | Gaming Console | Next-gen gaming console | 21999.99
          8
          9 | Printer
                               | Wireless printer
                                                            10999.99
         10 Router
                               | High-speed router
                                                            5499.99
10 rows in set (0.00 sec)
```

5. Write an SQL query to delete a specific order and its associated order details from the "Orders" and "OrderDetails" tables. Allow users to input the order ID as a parameter.

```
SET @order_id = 10;

DELETE FROM Orders WHERE OrderID = @order id;
```

DELETE FROM OrderDetails WHERE OrderID = @order id;

```
mysql> SET @order_id = 10;
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> DELETE FROM OrderDetails WHERE OrderID = @order_id;
Query OK, 1 row affected (0.03 sec)
mysql> DELETE FROM Orders WHERE OrderID = @order_id;
Query OK, 1 row affected (0.01 sec)
```

6. Write an SQL query to insert a new order into the "Orders" table. Include the customer ID, order date, and any other necessary information.

```
INSERT INTO OrderDetails (OrderDetailID, OrderID, ProductID, Quantity)
```

VALUES (10, 10, 10, 3);

INSERT INTO Orders (OrderID, CustomerID, OrderDate, TotalAmount)

VALUES (10, 1, '2024-04-10', 39999.99);

```
mysql> INSERT INTO Orders (OrderID, CustomerID, OrderDate, TotalAmount)
-> VALUES (10, 1, '2024-04-10', 39999.99);
Query OK, 1 row affected (0.02 sec)
```

7. Write an SQL query to update the contact information (e.g., email and address) of a specific customer in the "Customers" table. Allow users to input the customer ID and new contact information.

```
SET @new_email = 'example@example.com';

SET @new_address = '466 Main St, Vizag';

SET @customer_id = 10;
```

```
mysql> SET @new_email = 'example@example.com';
Query OK, 0 rows affected (0.00 sec)

mysql> SET @new_address = '466 Main St, Vizag';
Query OK, 0 rows affected (0.00 sec)

mysql> SET @customer_id = 10;
Query OK, 0 rows affected (0.00 sec)
```

UPDATE Customers

SET Email = @new_email, Address = @new_address

WHERE CustomerID = @customer id;

```
mysql> UPDATE Customers
    -> SET Email = @new_email, Address = @new_address
-> WHERE CustomerID = @customer_id;
Query OK, 1 row affected (0.02 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from customers;
 CustomerID | FirstName | LastName | Email
                                                                        Phone
                                                                                     Address
                Ravi
                             Kumar
                                         ravi.kumar@gmail.com
                                                                        1234567890
                                                                                       123 Main St, Vijayawada
                Sarala
                             Reddy
                                         sarala.reddy@gmail.com
                                                                        0987654321
                                                                                      456 Main St, Guntur
                                                                        9876543210
               Prasad
                             Rao
                                         prasad.rao@gmail.com
                                                                                      789 Main St, Visakhapatnam
               Anusha
                             Gowda
                                         anusha.gowda@gmail.com
                                                                        0123456789
                                                                                     | 101 Main St, Tirupati
                                                                        8765432109
                                                                                      222 Main St, Nellore
                Rajesh
                             Babu
                                         rajesh.babu@gmail.com
                                                                                      333 Main St, Kakinada
               Shobha
                             Chowdary
                                         shobha.chowdary@gmail.com
                                                                        5432109876
                                         prakash.naidu@gmail.com
                                                                        6543210987
                                                                                      444 Main St, Rajahmundry
                Prakash
                             Naidu
               Vijaya
                                                                                      555 Main St, Amaravati
                             Kumari
                                         vijaya.kumari@gmail.com
                                                                        2345678901
                                                                                      666 Main St, Vizianagaram
466 Main St, Vizag
123 Main St Vijayawada
                                         ram.gopal@gmail.com
               Ram
                             Gopal
                                                                        4321098765
          10
               Lakshmi
                             Devi
                                         example@example.com
                                                                        3456789012
                                         ram@gmail.com
                                                                        1234123412
          11 | Ram
                             Reddy
11 rows in set (0.01 sec)
```

8. Write an SQL query to recalculate and update the total cost of each order in the "Orders" table based on the prices and quantities in the "OrderDetails" table.

```
UPDATE Orders o

SET TotalAmount = (

SELECT SUM(od.Quantity * p.Price)

FROM OrderDetails od

JOIN Products p ON od.ProductID = p.ProductID

WHERE od.OrderID = o.OrderID
)

WHERE o.OrderID IN (

SELECT OrderID

FROM OrderDetails
);
```

```
mysql> UPDATE Orders o
   -> SET TotalAmount = (
   -> SELECT SUM(od.Quantity * p.Price)
   -> FROM OrderDetails od
   -> JOIN Products p ON od.ProductID = p.ProductID
   -> WHERE od.OrderID = o.OrderID
   -> )
   -> WHERE o.OrderID IN (
   -> SELECT OrderID
   -> FROM OrderDetails
   -> );
Query OK, 9 rows affected (0.05 sec)
Rows matched: 9 Changed: 9 Warnings: 0
```

9. Write an SQL query to delete all orders and their associated order details for a specific customer from the "Orders" and "OrderDetails" tables. Allow users to input the customer ID as a parameter.

```
SET @customer id = 8;
```

DELETE FROM OrderDetails WHERE OrderID IN (SELECT OrderID FROM Orders WHERE CustomerID = @customer_id);

DELETE FROM Orders WHERE CustomerID = @customer_id;

```
nysql> DELETE FROM Orders WHERE CustomerID = @customer_id;
Query OK, 1 row affected (0.01 sec)
nysql> select * from orders;
 OrderID | CustomerID | OrderDate | TotalAmount |
                                         54999.99
                        2024-04-01
                                         32999.99
                        2024-04-02
                        2024-04-03
                                         16499.99
                        2024-04-04
                                         10999.99
                        2024-04-05
                                         8799.99
       5
                        2024-04-06
                                         38499.99
                        2024-04-07
                                         60499.99
                        2024-04-09
                                         10999.99
                        2024-04-10
      10
                                         39999.99
 rows in set (0.00 sec)
```

10. Write an SQL query to insert a new electronic gadget product into the "Products" table, including product name, category, price, and any other relevant details.

INSERT INTO Products (ProductID, ProductName, Description, Price)

VALUES (11, 'Dell Laptop', 'High performance laptop', 49999.99);

```
mysql> INSERT INTO Products (ProductID, ProductName, Description, Price)
-> VALUES (11, 'Dell Laptop', 'High performance laptop', 49999.99);
Query OK, 1 row affected (0.02 sec)
mysql> select * from products;
 ProductID | ProductName
                                  Description
                                                                 | Price
               HP Laptop
                                  | High performance laptop
                                                                   54999.99
                Smartphone
                                   Latest smartphone model
                                                                   32999.99
                Tablet
                                   Compact tablet
                                                                   16499.99
                Headphones
                                   Wireless headphones
                                                                   10999.99
                Smartwatch
                                    Fitness smartwatch
                                                                    8799.99
                                                                   38499.99
                Camera
                                   DSLR camera
                                    Smart LED TV
                                                                   60499.99
                Gaming Console | Next-gen gaming console |
                                                                   21999.99
                                    Wireless printer
                                                                   10999.99
                Printer
                                    High-speed router
                                                                    5499.99
          10
                Router
          11 | Dell Laptop
                                   High performance laptop | 49999.99
11 rows in set (0.00 sec)
```

11. Write an SQL query to update the status of a specific order in the "Orders" table (e.g., from "Pending" to "Shipped"). Allow users to input the order ID and the new status.

ALTER TABLE Orders

ADD COLUMN Status VARCHAR(50);

```
mysql> ALTER TABLE Orders
     -> ADD COLUMN Status VARCHAR(50);
Query OK, 0 rows affected (0.31 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> select * from orders;
 OrderID | CustomerID | OrderDate | TotalAmount | Status |
                         1 | 2024-04-01 |
                                                  54999.99
                                                                NULL
                         2 | 2024-04-02 |
                                                  32999.99
                                                                NULL
                        2 | 2024-04-02 |

3 | 2024-04-03 |

4 | 2024-04-04 |

5 | 2024-04-05 |

6 | 2024-04-06 |

7 | 2024-04-07 |

9 | 2024-04-10 |
                                                  16499.99
                                                                NULL
                                                  10999.99
                                                                NULL
                                                   8799.99
                                                                NULL
                                                  38499.99
                                                                NULL
                                                  60499.99
                                                                NULL
                                                  10999.99
                                                                NULL
                                                  39999.99
                                                                NULL
 rows in set (0.00 sec)
```

UPDATE Orders

SET Status = @new_status

WHERE OrderID = @order id;

```
mysql> SET @new_status = 'shipped';
Query OK, 0 rows affected (0.00 sec)
mysql> SET @order_id = 9;
Query OK, 0 rows affected (0.00 sec)
mysql> UPDATE orders
    -> SET status = @new_status
    -> WHERE orderID = @order_id;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from orders;
 OrderID | CustomerID | OrderDate | TotalAmount | Status |
                                            54999.99 |
                           2024-04-01
        2
                           2024-04-02
                                            32999.99
                           2024-04-03
                                            16499.99
                                                        NULL
                           2024-04-04
        4
                                            10999.99
                                                        NULL
                           2024-04-05
                                             8799.99
                                                         NULL
                           2024-04-06
                                             38499.99
                           2024-04-07
                                            60499.99
                           2024-04-09
                                             10999.99
                                                         shipped
                           2024-04-10
                                             39999.99
9 rows in set (0.00 sec)
```

12. Write an SQL query to calculate and update the number of orders placed by each customer in the "Customers" table based on the data in the "Orders" table.

ALTER TABLE Customers

ADD COLUMN NumOrders INT;

```
ysql> ALTER TABLE Customers
-> ADD COLUMN NumOfOrders INT;
uery OK, 0 rows affected (0.06 sec)
ecords: 0 Duplicates: 0 Warnings: 0
/sal> select * from customers:
CustomerID | FirstName | LastName | Email
                                                                                                                            Phone
                                                                                                                                                    Address
                                                                                                                                                                                                               NumOfOrders
                                                                      ravi.kumar@gmail.com
sarala.reddy@gmail.com
prasad.rao@gmail.com
                                                                                                                              1234567890
                                                                                                                                                       123 Main St, Vijayawada
                                                                                                                                                       789 Main St, Guntur
789 Main St, Visakhapa
101 Main St, Tirupati
222 Main St, Nellore
333 Main St, Kakinada
                         Sarala
Prasad
                                                 Reddy
Rao
                                                                                                                              0987654321
9876543210
                                                                                                                                                                                                                             NULL
NULL
                                                                                                                              0123456789
8765432109
                         Anusha
Rajesh
Shobha
                                                                      anusha.gowda@gmail.com
rajesh.babu@gmail.com
shobha.chowdary@gmail.com
                                                 Gowda
                                                                                                                                                                                                                              NULL
                                                                                                                                                                                                                             NULL
                                                 Chowdary
                                                                                                                              5432109876
                                                                                                                                                      444 Main St, Rajahmundry
555 Main St, Amaravati
666 Main St, Vizianagaram
466 Main St, Vizag
                         Prakash
Vijaya
                                                 Naidu
Kumari
                                                                       prakash.naidu@gmail.com
vijaya.kumari@gmail.com
                                                                                                                              6543210987
2345678901
                                                                                                                                                                                                                             NULL
NULL
                9 | Ram
10 | Lakshmi
11 | Ram
                                                                      ram.gopal@gmail.com
example@example.com
ram@gmail.com
                                                 Gopal
                                                                                                                              4321098765
                                                                                                                                                                                                                              NULL
                                                 Devi
Reddy
                                                                                                                                                   | 123 Main St Vijayawada
                                                                                                                              1234123412
1 rows in set (0.00 sec)
```

```
UPDATE Customers c

SET NumOrders = (

SELECT COUNT(*)

FROM Orders o

WHERE o.CustomerID = c.CustomerID
);
```

```
ysql> UPDATE Customers c
-> SET NumOfOrders = ( select count(*) from orders o WHERE o.CustomerID = c.CustomerID);
Query OK, 11 rows affected (0.02 sec)
Rows matched: 11 Changed: 11 Warnings: 0
nysql> select * from customers;
 CustomerID | FirstName | LastName | Email
                                                                    Phone
                                                                                                                 | NumOfOrders |
                                                                                  Address
               Ravi
                                        ravi.kumar@gmail.com
                                                                                    123 Main St, Vijayawada
                                        sarala.reddy@gmail.com
                                                                      0987654321
                                                                                    456 Main St, Guntur
               Sarala
                            Reddy
               Prasad
                                        prasad.rao@gmail.com
                                                                      9876543210
                                                                                    789 Main St, Visakhapatnam
                            Rao
               Anusha
                            Gowda
                                        anusha.gowda@gmail.com
                                                                      0123456789
                                                                                    101 Main St, Tirupati
               Rajesh
                            Babu
                                        rajesh.babu@gmail.com
                                                                      8765432109
                                                                                    222 Main St, Nellore
               Shobha
                            Chowdary
                                        shobha.chowdary@gmail.com
                                                                      5432109876
                                                                                    333 Main St, Kakinada
                                                                                    444 Main St, Rajahmundry
               Prakash
                            Naidu
                                        prakash.naidu@gmail.com
                                                                      6543210987
               Vijaya
                                                                                    555 Main St, Amaravati
                            Kumari
                                        vijaya.kumari@gmail.com
                                                                      2345678901
                                        ram.gopal@gmail.com
                                                                      4321098765
                                                                                    666 Main St, Vizianagaram
               Ram
                            Gopal
                                                                                    466 Main St, Vizag
123 Main St Vijayawada
               Lakshmi
          10
                            Devi
                                        example@example.com
                                                                      3456789012
                            Reddy
                                       ram@gmail.com
                                                                      1234123412
               Ram
1 rows in set (0.00 sec)
```

Task 3. Aggregate functions, Having, Order By, GroupBy and Joins:

1. Write an SQL query to retrieve a list of all orders along with customer information (e.g., customer name) for each order.

select * from orders o JOIN Customers c ON o.customerID=c.CustomerID;

| i | OrderID | CustomerID | OrderDate | TotalAmount | Status | CustomerID | FirstName | LastName | Email | Phone | Address | NumOfOrders |
|---|----------|------------|------------|-------------|---------|------------|-----------|----------|---------------------------|-------------------|----------------------------|-------------|
| İ | 1 1 | | 2024-04-01 | 54999.99 | NULL | 1 | Ravi | Kumar | ravi.kumar@gmail.com | + 1234567890 | 123 Main St, Vijayawada | 2 |
| ı | 2 | | 2024-04-02 | 32999.99 | NULL | 2 | Sarala | Reddy | sarala.reddy@gmail.com | 0987654321 | 456 Main St, Guntur | |
| 1 | 3 | | 2024-04-03 | 16499.99 | NULL |] 3 | Prasad | Rao | prasad.rao@gmail.com | 9876543210 | 789 Main St, Visakhapatnam | |
| 1 | 4 | | 2024-04-04 | 10999.99 | NULL | 4 | Anusha | Gowda | anusha.gowda@gmail.com | 0123456789 | 101 Main St, Tirupati | 1 |
| 1 | 5 | | 2024-04-05 | 8799.99 | NULL | 5 | Rajesh | Babu | rajesh.babu@gmail.com | | 222 Main St, Nellore | |
| 1 | 6 | | 2024-04-06 | 38499.99 | NULL | 6 | Shobha | Chowdary | shobha.chowdary@gmail.com | 5432109876 | 333 Main St, Kakinada | 1 |
| 1 | 7 | | 2024-04-07 | 60499.99 | NULL | 7 | Prakash | Naidu | prakash.naidu@gmail.com | 6543210987 | 444 Main St, Rajahmundry | |
| | 9 | | 2024-04-09 | 10999.99 | shipped | 9 | Ram | Gopal | ram.gopal@gmail.com | | 666 Main St, Vizianagaram | |
| 1 | 10 | | 2024-04-10 | 39999.99 | NULL | 1 | Ravi | Kumar | ravi.kumar@gmail.com | 1234567890 | 123 Main St, Vijayawada | |
| + | + | | + | | + | + | | + | | + | | |

2. Write an SQL query to find the total revenue generated by each electronic gadget product. Include the product name and the total revenue.

select p.productname, SUM(p.price*od.quantity) as totalRevenue

from products p

JOIN orderdetails od ON p.productID=od.productID

GROUP BY p.productname;

```
mysql> select p.productname, SUM(p.price*od.quantity) as totalRevenue
   -> from products p
   -> JOIN orderdetails od ON p.productID=od.productID
   -> GROUP BY p.productname;
productname | totalRevenue |
 Laptop |
Smartphone |
Tablet
               54999.99
                   32999.99
                   16499.99
 Headphones
                   10999.99
 Smartwatch |
                   8799.99
                   38499.99
 Camera
                   60499.99
 Printer
                   10999.99
8 rows in set (0.01 sec)
```

3. Write an SQL query to list all customers who have made at least one purchase. Include their names and contact information.

select distinct group_concat(c.FirstName , ' ', c.LastName) as Name, c.Address, c.phone, c.email

FROM Customers c

JOIN Orders o ON o.CustomerID=c.CustomerID

GROUP BY c.CustomerID;

```
ysql> select distinct group_concat(c.FirstName, ' ', c.LastName) as Name, c.Address, c.phone, c.email
     JOIN Orders o ON o.CustomerID=c.CustomerID
   -> GROUP BY c.CustomerID;
                                                     phone
Anusha Gowda
                         101 Main St, Tirupati
                                                      0123456789 | anusha.gowda@gmail.com
                        444 Main St, Rajahmundry
                                                                   prakash.naidu@gmail.com
Prakash Naidu
                                                      6543210987
                        789 Main St, Visakhapatnam
222 Main St, Nellore
                                                                   prasad.rao@gmail.com
                                                      9876543210
Prasad Rao
Rajesh Babu
                                                      8765432109
                                                                   rajesh.babu@gmail.com
                         666 Main St, Vizianagaram
                                                      4321098765
                                                                   ram.gopal@gmail.com
Ravi Kumar, Ravi Kumar |
                        123 Main St, Vijayawada
                                                      1234567890
                                                                    ravi.kumar@gmail.com
                        456 Main St, Guntur
Sarala Reddy
                                                      0987654321
                                                                    sarala.reddy@gmail.com
Shobha Chowdary
                        333 Main St, Kakinada
                                                      5432109876
                                                                    shobha.chowdary@gmail.com
rows in set (0.01 sec)
```

4. Write an SQL query to find the most popular electronic gadget, which is the one with the highest total quantity ordered. Include the product name and the total quantity ordered.

select p.productName, SUM(od.quantity) as TotalQuantity

from products p

JOIN OrderDetails od ON od.ProductID=p.productID

GROUP BY p.productID

ORDER BY TotalQuantity DESC LIMIT 1;

5. Write an SQL query to retrieve a list of electronic gadgets along with their corresponding categories.

Adding category column to the Products table

ALTER TABLE Products

ADD COLUMN Category VARCHAR(50);

Updating the existing rows

UPDATE Products

SET Category =

```
CASE ProductID
   WHEN 1 THEN 'Laptop'
   WHEN 2 THEN 'Mobile'
   WHEN 3 THEN 'Tablet'
   WHEN 4 THEN 'Headphones'
   WHEN 5 THEN 'Smartwatch'
   WHEN 6 THEN 'Camera'
   WHEN 7 THEN 'TV'
   WHEN 8 THEN 'Gaming'
   WHEN 9 THEN 'Printer'
   WHEN 10 THEN 'Router'
   WHEN 11 THEN 'Laptop'
 END;
mysql> ALTER TABLE Products
    -> ADD COLUMN Category VARCHAR(50);
Query OK, 0 rows affected (0.10 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> UPDATE Products
    -> SET Category =
           CASE ProductID
    ->
               WHEN 1 THEN 'Laptop'
               WHEN 2 THEN 'Mobile'
    ->
               WHEN 3 THEN 'Tablet'
    ->
               WHEN 4 THEN 'Headphones'
               WHEN 5 THEN 'Smartwatch'
    ->
               WHEN 6 THEN 'Camera'
    ->
               WHEN 7 THEN 'TV'
    ->
               WHEN 8 THEN 'Gaming'
    ->
               WHEN 9 THEN 'Printer'
    ->
               WHEN 10 THEN 'Router'
    ->
               WHEN 11 THEN 'Laptop'
           END;
Query OK, 1 row affected (0.01 sec)
Rows matched: 11 Changed: 1 Warnings: 0
```

select * from Products:

```
nysql> select * from Products;
 ProductID | ProductName
                           Description
                                                     Price
                                                                Category
                            | High performance laptop | 54999.99 |
         1 | HP Laptop
                                                                 Laptop
         2 | Smartphone
                            | Latest smartphone model | 32999.99 |
                                                                 Mobile
                                                      16499.99
         3 | Tablet
                             Compact tablet
                                                                 Tablet
                                                      10999.99
         4 Headphones
                             Wireless headphones
                                                                 Headphones
         5 | Smartwatch
                              Fitness smartwatch
                                                       8799.99
                                                                  Smartwatch
         6
            Camera
                             DSLR camera
                                                       38499.99
                                                                  Camera
                                                       60499.99
                              Smart LED TV
           | Gaming Console |
                             Next-gen gaming console |
                                                       21999.99
         8
                                                                  Gaming
                                                     10999.99
         9 | Printer
                            | Wireless printer
                                                                  Printer
                             High-speed router
        10 | Router
                                                       5499.99
                                                                  Router
        11 | Dell Laptop
                            | High performance laptop | 49999.99 |
                                                                  Laptop
11 rows in set (0.00 sec)
```

6. Write an SQL query to calculate the average order value for each customer. Include the customer's name and their average order value.

Select group_concat(c.FirstName, '', c.LastName) as Name, AVG(o.totalAmount)

From Customers c

JOIN Orders o ON o.CustomerID=c.CustomerID

GROUP BY c.CustomerID;

```
nysql> Select group_concat(c.FirstName , ' ', c.LastName) as Name, AVG(o.totalAmount)
   -> From Customers c
   -> JOIN Orders o ON o.CustomerID=c.CustomerID
   -> GROUP BY c.CustomerID;
Name
                       AVG(o.totalAmount)
Ravi Kumar, Ravi Kumar
                              47499.990000
 Sarala Reddy
                             32999.990000
                              16499.990000
Prasad Rao
                               10999.990000
 Anusha Gowda
                               8799.990000
 Rajesh Babu
 Shobha Chowdary
                               38499.990000
 Prakash Naidu
                               60499.990000
                               10999.990000
Ram Gopal
3 rows in set (0.00 sec)
```

7. Write an SQL query to find the order with the highest total revenue. Include the order ID, customer information, and the total revenue.

Select o.orderID, group_concat(c.FirstName , ' ', c.LastName) as Name, c.phone, c.email, c.Address, o.TotalAmount

From orders o

JOIN Customers c ON o.CustomerID=c.CustomerID

GROUP BY o.OrderID

ORDER BY o.TotalAmount DESC LIMIT 1;

8. Write an SQL query to list electronic gadgets and the number of times each product has been ordered.

Select p.productName, SUM(od.quantity) as NumOfTimesOrdered

From Products p

JOIN OrderDetails od ON od.productID=p.productID

GROUP BY p.productID;

```
mysql> Select p.productName, SUM(od.quantity) as NumOfTimesOrdered
    -> From Products p
   -> JOIN OrderDetails od ON od.productID=p.productID
   -> GROUP BY p.productID;
 productName | NumOfTimesOrdered |
 HP Laptop
                               1 |
 Smartphone
                               1
 Tablet
 Headphones
 Smartwatch
 Camera
 TV
 Printer
                               1 |
 rows in set (0.01 sec)
```

9. Write an SQL query to find customers who have purchased a specific electronic gadget product. Allow users to input the product name as a parameter.

SET @gadget = 'Laptop';

```
mysql> SET @gadget = 'HP Laptop';
Query OK, 0 rows affected (0.01 sec)
```

SELECT c.CustomerID, GROUP_CONCAT(c.FirstName, ' ', c.LastName) as Name, p.ProductName

FROM Customers c

JOIN Orders o ON c.CustomerID = o.CustomerID

JOIN OrderDetails od ON o.OrderID = od.OrderID

JOIN Products p ON p.ProductID = od.ProductID

WHERE p.ProductName LIKE CONCAT ('%', @gadget, '%')

GROUP BY c.CustomerID, p.ProductName;

10. Write an SQL query to calculate the total revenue generated by all orders placed within a specific time period. Allow users to input the start and end dates as parameters.

```
SET @start_date = '2024-01-01';

SET @end_date = '2024-11-12';

Select SUM(o.TotalAmount) as TotalRevenue
```

From Orders o

WHERE o.orderDate BETWEEN @start_date AND @end_date;

Task 4. Subquery and its type:

Write an SQL query to find out which customers have not placed any orders.
 Select customerID, group_concat(firstName, ' ', lastName) as Name from Customers
 WHERE CustomerID NOT IN (select DISTINCT customerID from Orders)
 GROUP BY CustomerID;

2. Write an SQL query to find the total number of products available for sale. Select COUNT(*) as TotalNumberOfProducts from Products;

3. Write an SQL query to calculate the total revenue generated by TechShop. Select SUM(TotalAmount) as Total Revenue from Orders;

4. Write an SQL query to calculate the average quantity ordered for products in a specific category. Allow users to input the category name as a parameter.

```
SET @category name = 'Laptop';
```

SELECT p.category, AVG(od.Quantity) AS AverageQuantityOrdered

FROM OrderDetails od

JOIN Products p ON od.ProductID = p.ProductID

WHERE p.Category = @category name

GROUP BY p.category;

5. Write an SQL query to calculate the total revenue generated by a specific customer. Allow users to input the customer ID as a parameter.

```
SET @customer id = '6';
```

Select o.CustomerID, group_concat(firstName, '', lastName) as Name, SUM(o.TotalAmount) as Revenue Generated

From Orders o

JOIN Customers c ON c.CustomerID = o.CustomerID

WHERE o.CustomerID = @customer_id

GROUP BY CustomerID:

(or)

SELECT CustomerID, (SELECT SUM(TotalAmount) FROM Orders WHERE CustomerID = @customer_id) as Revenue_Generated

FROM Orders

WHERE CustomerID = @customer id;

6. Write an SQL query to find the customers who have placed the most orders. List their names and the number of orders they've placed.

```
SELECT CustomerID, group_concat(firstName, ' ', lastName) as Name,

(SELECT COUNT(OrderID) FROM Orders o WHERE o.CustomerID = c.CustomerID) as Num_of_Orders_Placed

FROM Customers c

GROUP BY CustomerID

HAVING Num_of_Orders_Placed = ( SELECT COUNT(OrderID) from Orders o

GROUP BY CustomerID

ORDER BY COUNT(OrderID) DESC LIMIT 1)
```

ORDER BY Num_of_Orders_Placed DESC;

7. Write an SQL query to find the most popular product category, which is the one with the highest total quantity ordered across all orders.

```
SELECT p.Category as Most_Popular_Category, SUM(od.Quantity) as Total_Quantity_Ordered FROM OrderDetails od
```

JOIN Products p ON od.ProductID = p.ProductID

GROUP BY p.Category

ORDER BY Total Quantity Ordered DESC LIMIT 1;

8. Write an SQL query to find the customer who has spent the most money (highest total revenue) on electronic gadgets. List their name and total spending.

Select CustomerID, group_concat(firstName, '', lastName) as Name,

(SELECT SUM(TotalAmount) from Orders o WHERE o.CustomerID=c.CustomerID)

As Total Revenue

From Customers c

GROUP BY CustomerID

ORDER BY Total Revenue DESC LIMIT 1;

9. Write an SQL query to calculate the average order value (total revenue divided by the number of orders) for all customers.

Select CustomerID, group_concat(firstName, '', lastName) as Name,

(SELECT AVG(TotalAmount) from Orders o WHERE o.CustomerID=c.CustomerID)

As Average_Order_Value

From Customers c

GROUP BY CustomerID;

```
mysql> Select CustomerID, group_concat(firstName, ' ', lastName) as Name,
   -> (SELECT AVG(TotalAmount) from Orders o WHERE o.CustomerID=c.CustomerID)
   -> As Average_Order_Value
   -> From Customers c
   -> GROUP BY CustomerID;
 CustomerID | Name
                               Average_Order_Value
                               47499.990000
32999.990000
16499.990000
          1 | Ravi Kumar
          2 | Sarala Reddy
3 | Prasad Rao
                                      10999.990000
          4 | Anusha Gowda
          5 | Rajesh Babu
                                       8799.990000
          6 | Shobha Chowdary |
                                      38499.990000
             Prakash Naidu
                                       60499.990000
             | Vijaya Kumari
          8
                                                NULL
          9
             Ram Gopal
                                        10999.990000
         10
              Lakshmi Devi
                                                NULL
         11 Ram Reddy
                                                NULL
11 rows in set (0.00 sec)
```

10. Write an SQL query to find the total number of orders placed by each customer and list their names along with the order count.

Select CustomerID, group concat(firstName, '', lastName) as Name,

(SELECT COUNT(OrderID) from Orders o WHERE o.CustomerID=c.CustomerID)

As Total_Orders_Placed

From Customers c

GROUP BY CustomerID;

```
mysql> Select CustomerID, group_concat(firstName, ' ', lastName) as Name,
    -> (SELECT COUNT(OrderID) from Orders o WHERE o.CustomerID=c.CustomerID)
    -> As Total_Orders_Placed
    -> From Customers c
    -> GROUP BY CustomerID;
```

| + | ! | + |
|------------|-----------------|---------------------|
| CustomerID | Name | Total_Orders_Placed |
| + | + | ++ |
| 1 | Ravi Kumar | 2 |
| 2 | Sarala Reddy | 1 |
| 3 | Prasad Rao | 1 |
| 4 | Anusha Gowda | 1 |
| 5 | Rajesh Babu | 1 |
| 6 | Shobha Chowdary | 1 |
| 7 | Prakash Naidu | j 1 j |
| 8 | Vijaya Kumari | j ø j |
| 9 | Ram Gopal | j 1 j |
| 10 | Lakshmi Devi | j 0 j |
| 11 | Ram Reddy | 0 |
| | | |

11 rows in set (0.00 sec)